#1848

(This section to be completed by subcontractor requesting document)
T. Lamb / K.25 CEP Requestor Document Center (is requested to provide the following document)
Date of request 6/27/95 Expected receipt of document 7/5/95
Document number Date of document 6994
Title and author (if document is unnumbered)) Email Message from Kozcust
on Bel denes
(This section to be completed by Document Center)
Date request received 4/23/95
Date submitted to ADC
Date submitted to HSA Coordinator K-25 6/24/95 38 ORNL 6/26/95
(This section to be completed by HSA Coordinator)
Date submitted to CICO 1 X-25-6/26/95
Date received from CICO 1) K-25 6/28/95
Date submitted to ChemRisk/Shonka and DOE 6-28-95
(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)
Date document received
Signature CC: Joe Wearer- Please Repaiss the attacked I mail Messografor where to Chenkix. Shell 6/20/95

MEMORANDUM INTEROFFICE

Date:

09-Jun-1994 05:29pm EDT

From:

James G Rogers

ROGERSJG

Dept:

6125

Tel No:

TO: JMU

cc: ROGERSJG

Subject: Fwd: bee hives

John,

The subject of DOE approval for individuals to operate bee hives on the ORR came up at the Resource Management Council meeting this morning. Bill Thompson, the K-25 Area manager raised the question because of a hive near K-25. The attached message is Pat Parr's response to Bill and Jack Newman. Jack is checking. He thinks the individuals need written approval from DOE.

I cautioned Jack not to try to justify the honey operation on the basis that we want the honey for monitoring. We have no requirement driving us to monitor the honey; however if DOE allows the honey operation to continue, I would think we would want to sample the honey to know the contents. Seems like we may vant to include the information in the Special Studies Section of the Annual Site Environmental Report. Let me know if you agree with my remarks to Jack. I told Jack and Pat that I would talk to you.

Jim

P.S. - Bill Laing had someone "mark up" Tables 5.1 through 5.5 of the EMP Draft and fax them to me today. I'll include them in the revised EMP.

Oak Ridge K-25 Site Oak Ridge, Teancasce 37831-7314 managed by MARTIN MARIETTA ENERGY SYSTEMS, INC. for the U.S. DEPARTMENT OF ENERGY under Contract DE-AC05-84OR21400

This document has been reviewed for classification and has been determined to LINCLASSIFIED.

This document has been approved for release the public by d

Feelmical Information Oak Ridge K-25 Site

•	
· • •	(This section to be completed by subcontractor requesting document)
,	J. Lamb Banks K. 25 The CER
(Requestor Document Center (is requested to provide the following document)
	-18h-
	Document number $F:00013$ Date of document $11 10 99$
	Title and author (if document is unnumbered) Selevives (i) Email Message from Bill Jeer (Y-12) Email
	Variate durale (K-25) /3) Lta from O'Donnell (ORDE) to
	Of Mushy 14 Engil Ressay from Bill Fell (1-12)
	U(5) Enail hissage from Jodd Auty (Y-12), (6) Email for
	This section to be completed by Document Center) for Par CORNE
	Date request received 6/23/95 Rogus to Rot Para (KEZ)
	All teller & Par Par
	Date submitted to ADC New Coordinator > 25 4/2/1/95 Mailed to y-12 6
)	Date submitted to HSA Coordinator X-25 6/26/95 Mailed 4 7-12 6
3	
> ~	(This section to be completed by HSA Coordinator)
7.	9 Date submitted to CICO_K-25 6/26/95
•	Date received from CICO 6/28/95
7	
121	Date submitted to ChemRisk/Shonka and DOE 6-28-95
ے <i>لا</i> لا	
الح د	(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)
, 3,	
	Date document received
	Signature y-12 D A
(Signature 1°C: Wiley-Please process these documents for Chenkich. Weaver-Bear process the ORNE documents for Chenk

Date:

22-Nov-1994 04:26pm EST

From:

James G Rogers

ROGERSJG AT A1 AT KSV

Dept:

6125

Tel No:

TO: MURPHYJB

CC: ROGERSJG

Subject: Fwd: Honey Data

Reminder - Still need attached memo.

Oak Ridge K-25 Site
Oak Ridge, Tennemee 37831-7314
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400

This document has been approved for release to the public by:

Technical Information Officer Oak Ridge K-25 Site

Date

14-Nov-1994 08:10am EST Date:

James G Rogers From:

ROGERSJG AT A1 AT KSV

Dept: 6125

Tel No:

TO: MURPHYJB

cc: ROGERSJG

Subject: Honey Data

Still need to get O'Donnell's assessment of the 1984 and 1993 dose

calculations on honey from you; and the "Kerr Hives" data for the week of Sept. 5, 1994 for gross alpha and betas, gammas, and tritium.

Ulter 7 - K-25

INTEROFFICE MEMORANDUM

Date:

21-Dec-1994 06:40am EST

From:

James G Rogers

ROGERSJG AT A1 AT KSV

Dept:

6125

Tel No:

TO: See Below

Subject: Fwd: Re: bee hives

Pat,

I agree with Bill. I'm not a lawyer nor am I an expert on contracts; however I also think we are vulnerable. If DOE personnel agree that we need honey samples from the Oak Ridge Reservation, we will work out a way to collect the honey without using hives which are being used for public sale.

I understand there are two employees with hives on the ORR. I recommend that someone from the contracts office meet with each employees' supervisor and with each employee, and work out a way to remove the hives from the ORR.

We do need to remember that verbal approval was given to these gentlemen evidently by both DOE and MMES management personnel. Seems to me we are obligated to work with them as much as possible to minimize the impact on their hives during the removal process. Hopefully everyone will cooperate. I know nothing about beekeeping. If there are certain times during the year when it is better to move hives, I suggest we try to work out a plan which is acceptable to all concerned.

Please keep me informed.

Jim

Distribution:

TO: PARRPD

CC: KORNEGAYFC NEWMANJR

PEEBLESJD

ROGERSJG

TEERWWJR

CC: THOMPSONWWJR

This document has been approved for release

o the public by:

Technical Information Office Oak Ridge K-25 Site

Date

DOCUMENT DESCRIPTION	(Completed By Requesting Division)	
Document No. 75-13 63 DEL.REV Author's Tele		Date of Request
	2366000 \$	06/21/90
Unclassified Title: RIVATE BEE HIVES (7		
KESERVATION (E-MAIL	UNRRESPONDENCE	}
Author(s) Requestor: Steve Wiley		
TYPE: Formal Report Informal Report Prog	ress/Status Report 🔲 Co-Op Repo	ort
Oral Presentation (identify meeting, sponsor, location, data):	the second section of the	· The apper ・ 関連を含めます。 · A
Journal Article (Identify Journal):		
X Other (Society): To Be Released to ChemRisk	. Phase II	
Document will be published in proceedings No Yes		
Document will be distributed at meeting No Yes		
	tify)	
Document has been previously released No Yes (Refer		
	VAL (Completed By Requesting Division	1
TECHNICAL CLASSIFICATION/REVIEW (Divisional Classification Represent		
Title(s): Unclass, fied Abstract:	DOCUMENT HEQUEST OF	PROVED (Division or Department)
	Signature	(2)/9)
Category	 //	
Y-12 Chessification Office Date	Signature	Dete
	LETED BY THE TECHNICAL INFOR	MATION OFFICE
DIST	RIBUTION	
Internal Distribution External Distribution	Distribution: UCN-772	
TID-4500 Category or Copies to	Y-12 Central Files Y-12 RC	Cauley Y-12 RC
ANNOUNCED IN: ERA Atomindex (Available from NTIS)	S.W. W	-
M-3679 Category	R.M. K	eyse <u>r</u>
_	NCR	
Distribution Remarks: Public (CHEMRISK)		
APPROVAL	AND RELEASE	
Date Received Date Initiated		
14/2//95	Editor	Date
Z CLASSIFICATIONS:	m V=41.35	6/28/95
Additiset	Patent Office	Oete O
POCUMENT:	o	
Level Category		Date
Weapons Data Sigma	O	0-1-
Y-12 Clasification Office Dame		Date
Dete		
APPROVED FOR: Declassification Release subject to	use of the following admonitopymarking	And conditions:
District Country Co		- 1 halke
Desciainer Copyright Patent Caution Other		formation Office Date
Conditions/Demostra	i econical in	

_	This section to be completed by subcontractor requesting document) This section to be completed by subcontractor requesting document) This section to be completed by subcontractor requesting document)
F	Requestor Document Center (is requested to provide the following document)
L	Date of request 6/22/95 Expected receipt of document 7/6/5
I	Document number <u>F'00013</u> Date of document <u>11/10/94</u>
,	Title and author (if document is unnumbered) Server (1) Email Message From Bill Jeer (Y-12) Email Parente Murphy (K-25); (3) Lts from O'Normell (ORNE) to Normal Jeer (Y-12)
	(This section to be completed by Document Center) for Par (Oru
Sand	Date request received 6/23/95 Roque to Cot Passe (RE)
	Date submitted to ADC
	Date submitted to HSA Coordinator K-25 6/26/95 Mailed to 4-12
	(This section to be completed by HSA Coordinator)
٠,	Date submitted to CICO K-25 6/26/95
3 c	Date received from CICO
	Date received from CICO
-22-	(This section to be completed by ChemRisk/Shonka Research Associates, Inc.
7,6	Date document received
	Signature_ 10: Wiley-Please process these documents for Chenticher 10: Wiley-Blease process the ORNC documents for Chenticher 10/26/95 SOTA

Vlten 1 - y-12 Y/TS-1363/DEL.RE

MEMORANDUM INTEROFFICE

Date:

10-Nov-1994 05:12pm EST

From:

James G Rogers

ROGERSJG AT A1 AT KSV

Dept:

6125

Tel No:

TO: MITCHELLME

CC: ROGERSJG

Subject: Fwd: Private Bee Hives On the Oak Ridge Reservation

This document has been reviewed for classification and has been determined to be UNCLASSIFIED.

ADC Signature

APPROVED FOR PUBLIC RELEASE

Technical Information Office Date

Date: 10-Nov-1994 04:20pm EST

From: Walter William Teer

TEERWWJR AT A1 AT CTDVX5

It is

Dept: 7113 Tel No: 6-0102

TO: See Below

Subject: Private Bee Hives On the Oak Ridge Reservation

It has come to the attention of the Resource Management Organization (RMO), as the result of a K-25 DOE review, that three Energy Systems employees are maintaining bee hives on the Oak Ridge Reservation (ORR). Hives are being maintained at four locations on the ORNL portion of the ORR and one location on the K-25 portion of the ORR. To the best of our knowledge there are no written contracts allowing these individuals to use ORR land for these purposes. Apparently verbal concurrences were given many years ago allowing them to use the land.

we are going to allow the use of the ORR for bee keeping we should at the very least formalize the practice with written contracts. The contracts should also be competed. We know of no justification for sole source contracts.

The RMO questions whether or not Energy Systems should allow bee keeping operations by private citizens to continue at all.

our understanding that honey from some of these hives was sampled in 1984 and again in 1993 and that the levels of contamination were within acceptable norms. The RMO questions why Energy Systems should be involved in these activities and recommends that the bee keeping activities be terminated with the concurrence of ORO. If the bee keeping by private citizens for commercial sale is to continue we believe that the honey from each of the locations should be sampled annually.

Please have your staff provide us with your position on this matter. Should we terminate the activities, competitively bid the activities, or sole source them to the current bee keepers (justification for the sole source will be difficult).

Bill

Distribution:

TO: EBYRS JQS

CC: FIGUEROAFA KORNEGAYFC NEWMANJR PARRPD ROGERSJG

CC: STIVERSRMJR THOMPSONWWJR

Letem 4- 4-12

INTEROFFICE MEMORANDUM

Date:

06-Dec-1994 02:05pm EST

From:

Walter William Teer

TEERWWJR AT A1 AT CTDVX5

7113 Dept:

6-0102 Tel No:

TO: BUTZTR

CC: PARRPD

PEEBLESJD

ROGERSJG

THOMPSONWWJR

Subject: Location of Apiaries on the DOE Oak Ridge Reservation

Todd,

It came to the attention of the Resource Management Organization several months ago that years ago bee hive keepers were apparently given verbal approval to maintain bee hives on portions of the Oak Ridge Reservation (ORR) signed to K-25 and ORNL. Honey from the hives is being sold to the public. There are four apiaries on the ORR. Three of the apiaries consist of 20 colonies of bees and the forth apiary consists of 8 colonies. Contamination studies performed by MMES and its predecessor UCND show low levels of radiation in the honey for the years 1983, 1993 and 1994. The RMO has taken the position that MMES should not allow commercial bee keeping on the reservation for liability reasons. We further believe that if the practice is to continue formal competitive contracts will be required and annual contamination sampling will have to be performed by MMES.

Bob Eby of K-25 has concurred with the RMO position that the beehives be removed from the ORR. We anticipate concurrence from ORNL. I wanted to make you aware of the subject even though we are unaware of any bee hives on the portion of the ORR controlled by Y-12. If you have a position on the subject I would appreciate hearing from you or your staff.

Bill

Date:

07-Dec-1994 07:01am EST

From:

James G Rogers

6125

ROGERSJG AT A1 AT KSV

Dept:

Tel No:

TO: MITCHELLME S

STAIRCL

CC: ROGERSJG

Subject: Fwd: Location of Apiaries on the DOE Oak Ridge Reservation

Ulter 5 - Y-12

INTEROFFICE MEMORANDUM

Date:

07-Dec-1994 08:49am EST

From:

Todd R Butz

BUTZTR AT A1 AT OCU1

Dept:

2658

Tel No:

TO: TEERWWJR

CC: PARRPD

PEEBLESJD

amentantia a la complete de la comp

ROGERSJG

THOMPSONWWJR

Subject: Re: Location of Apiaries on the DOE Oak Ridge Reservation

Bill,

Sounds like a sticky situation, but we allow the public to hunt deer only on an equal opportunity basis and verify contamination levels. I don't see why we would allow harvest of honey with any less attention. We either need to manage what is done or get the bee hives off the reservation.

Todd

Ultem8- 1-12

INTEROFFICE MEMORANDUM (1) Automobile (1) o fellete mog m

Date: 20-Dec-1994 01:07pm EST

The second secon

From:

Walter William Teer

TEERWWJR AT A1 AT CTDVX5 7113

Dept:

Tel No: 6-0102

TO: See Below

Subject: Re: bee hives

Pat,

It appears that Kerr may have learned of the Energy Systems' concerns and may be attempting an end run. From a contractual point of view such a meeting could be construed to be inappropriate. If we were to allow bee keeping to continue on the reservation we would have to compete the contract. Such a meeting could be construed as giving Kerr an advantage.

We have already concluded that Energy Systems can provide the honey to be ampled if sampling is required. Do you believe there is justification for the meeting Kerr is seeking to arrange?

It appears to me that Energy Systems has a significant vulnerability on this subject.

Bill

Distribution:

TO: PAR

CC: KORNEGAYFC NEWMANJR

PEEBLESJD

ROGERSJG

THOMPSONWWJR

U.S. DEPARTMENT OF ENERGY OAK RIDGE OPERATIONS OAK RIDGE ORNL SITE OFFICE

TRANSMITTAL OF INFORMATION

The enclosed is to fulfill a request made by Chem Risk, as part of the Oak Ridge Health Studies agreement efforts. These documents have received the necessary reviews and may be released to the Chem Risk.

TIO Release Approval:	Danale Hamon	
Information enclosed:	Bee Hives Transmittals	
Requested by:	Jennifer Lamb	
Requested from:	Joe Weaver	
Approved:	Timothy by	as D
	Timothy W. Joseph Program Manager DOE ORNL Site Office	
Date:	July 28, 1995	
cc w/o enc: J. L. Wea	ver, 101MID, MS-6481	

the state of the s
(This section to be completed by subcontractor requesting document)
J. Lamb / K.25 CEP
Requestor Document Center (is requested to provide the following document)
Date of request 600003 Expected receipt of document 3/5/95
Document number Date of document 6994
Title and author (if document is unnumbered)) Email Message from Rogeres & John Murphy Subject Ber Klines, 6/9/94;
2) ORNL - Empil Kessages from Bat Parr and John Muy
(This section to be completed by Document Center)
Date request received 4/23/95
Date submitted to ADC
Date submitted to HSA Coordinator K-25 6/24/95 330LNL 6/26/95
(This section to be completed by HSA Coordinator)
Date submitted to CICO 1) K-25-6/26/95
Date received from CICO
Date submitted to ChemRisk/Shonka and DOE
(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)
Date document received
Signature_ CC: Joe Wearer-Please pipers the attacked I mail Nessoysofor where to the Rich. Shel 6/20/95

Date:

09-Jun-1994 12:49pm EDT

From:

pat d. parr

par@cosmail1.ctd.ornl.gov@SMTI

Dept: Tel No:

TO: NEWMANJR

ROGERSJG

THOMPSONWWJR

CC: PARRPD

Subject: bee hives

Jack, Bill, Jim - The two individuals with bee hives on the ORR are: Howard Kerr 4-7134 (with 4-5 locations) and Dick Lorenz 4-6844 (1 location, near K-25) Bill - I am faxing you the

map showing the location

My notes indicate that Howard Kerr told me he has permission from DOE. Wayne Parsons will be analyzing the honey annually through the monitoring program. I don't yet have any more detail - Howard Kerr was to send me a map and additional information. Dick Lorenz sent me a map of his location.

Pat Parr

Date:

13-Jun-1994 00:00am EDT

From:

JMU

JMU@STC10.CTD.ORNL.GOV@SMTP@KO

Dept: Tel No:

TO: ROGERSJG

Subject: Re: Fwd: bee hives

i agree about the honey

(This section to be completed by subcontractor requesting document)	
Tipe Branch K-25 FIFE CER Document Center (is requested to provide the following	document)
Date of request 6/22/95 Expected receipt of document 7/25	95
110/01/	·
Title and author (if document is unnumbered) ble hives (1) Email Message From Bill Jeer (Y-12) Pagente Murphy (K-25); (3) Lts from O'Normell (ORN Pagente Murphy (K-25); (3) Lts from Bill Jeer	(2) Emul () (0) () Y-12)
(This section to be completed by Document Center) for Part Cat Pa	mail from
Date request received 6/23/95 Rogus to Bot Bar	Jeen (4-12)
Date submitted to ADC 1' Robert by Java Welch	. On 6/26/95
Date submitted to HSA Coordinator KIS L/95 Mailed to ORNE	¥ 4-12 6/2
(This section to be completed by HSA Coordinator)	
Date submitted to CICO K-25 6/26/95	
n Date received from CICO	
SS Date submitted to ChemRisk/Shonka and DOE	
(This section to be completed by ChemRisk/Shonka Research Assoc	iates, Inc.)
Date document received	
Signature	henlich forchenlich SOTLoud

Internal Correspondence

Oltan 3- ORNL

MARTIN MARIETTA

MARTIN MARIETTA ENERGY SYSTEMS, INC.

Date:

November 23, 1994

To:

J. B. Murphy

cc:

J. G. Rogers, P. A. Scofield

From:

F. R. O'Donnell, 4500S, MS-6102, ORNL (6-2132) 760

Subject:

Potential Doses From Eating Honey

Per your request, we have calculated the potential 50-year committed effective dose equivalents associated with ingestion of 1.0 kg of honey from each of the hives sampled during 1984, 1993, and 1994. (One kilogram of honey likely is more than will be consumed by all but a few persons, such as beekeepers. According to the 1992 edition of the *Public Health Assessment Guidance Manual*, the average individual in the United States consumes about 5 g/day or 1.8 kg/year of all sugars.) The results are listed in the attached table by nuclide group: Group 1, which includes ³H, ⁶⁰Co, and ¹³⁷Cs; Group 2, which includes gross beta (taken to be ⁹⁰Sr) and gross alpha (taken to be ²³²Th) activities; and Group 3 which consists of ⁴⁰K. A blank value for a given group indicates that no data were reported for that group.

The maximum 50-year committed effective dose equivalent from eating 1.0 kg of honey was calculated to be about 0.2 mrem. Almost all of the doses from the 1993 and 1994 data were due to the unidentified gross beta activity, which we took to be ⁹⁰Sr. Gross beta and alpha activities were not reported in the 1984 data. Gross alpha activity was reported only in the 1993 data, and ⁴⁰K activities were reported only in the 1994 data. (Potassium-40 should be regarded solely as a naturally occurring radionuclide.

I trust the above information and the attached table will be sufficient for your needs. If you have any questions or need additional calculations or information, feel free to contact me at your leisure.

Attachment

Attachment to November 23, 1994 memo re doses from eating honey

Year	Location	50-year committed effective dose equivalents (mrem) from eating 1.0 kg of honey				
		Group 1	Group 2	Subtotal	Group 3	Total
1994	K-25 #1	0.0015	0.13	0.14	0.030	0.17
1994	K-25 #2	0.0011	0.12	0.12	0.023	0.15
1994	0800 #2	0.00097	0.054	0.055	0.014	0.068
1993	Hive 1	0.00039	0.16	0.16		0.16
1993	Hive 2	0.00051	0.20	0.20		0.20
1993	Hive 3	0.0017	0.19	0.19		0.19
1993	Hive 4	0.0025	0.11	0.11		0.11
1993	Hive 5	0.00069	0.21	0.21		0.21
1984	Control, East Oak Ridge	0.00040		0.00040		0.0004
1984	Melton Branch, below HFIR	0.011		0.011	·	0.011
1984	Shale fracture site	0.14		0.14		0.14
1984	Near old gas-cooled reactor site	0.00078		0.00078		0.00078
1984	North side of White Oak lake	0.0047		0.0047		0.0047
1984	SW of ORNL south parking lot	0.0060		0.0060		0.0060

0800#5 Missing See next page

Post-it* Fax Note 7671	Date 28/Ans /87 pages
To Jim Regers	From John Murphy
Co.Dept	Co.
Phone #	Phone #
Fox 66714	Fex #

Attachment to November 23, 1994 memo re doses from eating honey

Year	Location	50-year committed effective dose equivalents (needing 1.0 kg of honey				em) nom
		Group 1	Group 2	Subtotal	Group 3	Total
1994	K-25 #1	0.0015	0.13	0.14	0.030	0.17
1994	K-25 #2	0.0011	0.12	0.12	0.023	0.15
1994	0800 #2	0.00097	0.054	0.055	0.014	0.068
1994	0800 #5	0.00084	0.13	0.13	0.031	0.16
1993	Hive 1	0.00039	0.16	0.16		0.16
1993	Hive 2	0.00051	0.20	0.20		0.20
1993	Hive 3	0.0017	0.19	0.19		0.19
1993	Hive 4	0.0025	0.11	0.11		0.11
	Hive 5	0.00069	0.21	0.21		0.21
1993	Control, East Oak Ridge	0.00040		0.00040		0.0004
1984	Melton Branch, below HFIR	0.011		0.011		0.011
1984	Shale fracture site	0.14		0.14		0.14
1984	Near old gas-cooled reactor site	0.00078		0.00078		0.00078
1984	North side of White Oak lake	0.0047		0.0047		0.0047
1984	SW of ORNL south parking lot	0.0060		0.0060		0.0060

Jim - please replace this
Sheet - discar L previous
Sheet.

Notes: Kogers

Ave. deer weigh = 45 lbs of edible meat or 20 kgs - In 1991 the Ave concentration of Cs, Co, 45r in deer released would result in a person receiving 0.14 mrem from eating the entire Average deer.

A person eating one kg. of honey (2.5 lbs) from the hives around DRNL and K-25 would receive a dose of the same order of magnitude. - Up to 6.21 mrow.

Ulter 6-ORNL

INTEROFFICE MEMORANDUM

Date:

19-Dec-1994 00:00am EST

From:

pat d. parr

par@cosmail1.ctd.ornl.gov@SMTP

Dept: Tel No:

TO: See Below

Subject: bee hives

I received a call from Howard Kerr this morning- he wanted to set up a time I could attend a meeting with him and Kevin Dillon (TDEC) to talk about bee hives on the ORR and uses for monitoring. He has talked with Kevin Dillon who is "anxious to see environmental surveillance done with bees- even wants to be directly involved". He plans to invite Murphy. I suggested that he contact Jim Rogers also.

Pat

Distribution:

TO: KORNEGAYFC

CC: NEWMANJR

PEEBLESJD

ROGERSJG

TEERWWJR

THOMPSONWWJR